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Larvicidal efficacy and Chemical Constituents Analysis of *Strychnos nux-vomica* Linn. (Loganiaceae)

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Strychnos-nux vomica Linn (Loganiaceae) is a common medicinal tree used for the treatment of various diseases. This study was performing the larvicidal efficacy and phytochemical constituents analysis from the various parts of *S. nux vomica* by using ethyl acetate, acetone and water extracts (100, 300 and 500µg/ml). Among them, ethyl acetate extract of *S.nux-vomica* plant show the better larvicidal activity against *Ae.aegypti*, with the best LC₅₀- 606.206 and LC₉₀ - 958.855 µg/ml values, within 24 hrs exposure period. The preliminary phytochemicals of *S.nux-vomica* revealed the leaf contains phenols in all the tested extracts. Glycosides were present in seed coat extracts and Tannins content was abundantly present in leaf and fruit pulp extracts. Alkaloids and amino acids were absent in all the tested extracts. The GC-MS analysis of *S. nux vomica* shown several major and minor compounds based on the retention time, molecular weight and scan range.

Keywords: *Strychnos-nux vomica*, Leaf, Fruit Pulp, Seed, Seed coat, GC-MS